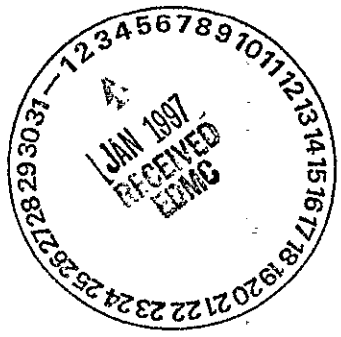
B00B87-SAI

0046177

Science Applications International Corporation
An Employee-Owned Company

December 5, 1990

Westinghouse Hanford Company
2355 Stevens Drive
Richland, WA 99352
Attn: R. A. Bechtold



Reference: Contract No. MPB-SVV-069146

Dear Ms. Bechtold:

Enclosed is the sample delivery group No. *BOOB87* and SOW No. *300-FF-1 Remedial Investigation, Task 5b Vegetation Analysis for CY 1990*. The following samples were received on October 19, 1990:

WHC Sample No.	*SAIC Sample No.*
BOOB87	19768
BOOB86	19769
BOOB85	19770
BOOB88	19772
BOOB84	19773
BOOB89	19774
BOO9V2	19775
BOO9V1	19776
BOO9V0	19777
BOO9T9	19778
BOO9T8	19779
BOO9T7	19780
BOOB83	19782
BOOB81	19783
BOOB82	19784
BOOB93	19785
BOOB92	19786
BOOB91	19787
BOOB90	19788

WHC Sample No.	*SAIC Sample No.*
BOOCJ2	19789
BOOCJ5	19790
BOOCJ0	19792
BOOCJ3	19793
BOOCJ1	19794
BOOCJ6	19795
BOOCH5	19796
BOOCJ8	19797
BOOCH8	19798
BOOCJ9	19799
BOOCH7	19800
BOOCJ7	19802
BOO9Q4	19803
BOO9Q6	19804
BOO9Q3	19805
BOO9Q5	19806
BOO9T1	19807
BOO9T2	19808
BOO9T3	19809
BOO9T4	19810
BOO9T6	19812
BOO9T5	19813
BOOB79	19814
BOOB78	19815

Data is also included for the blanks, replicates, spikes, and lab control samples. Samples were as follows:

Type of Sample	*SAIC Sample Numbers*
Duplicate	19771
Duplicate	19781
Duplicate	19791
Duplicate	19801
Duplicate	19811

Type of Sample	*SAIC Sample Numbers*
Blank	Blank 1
Blank	Blank 2
Blank	Blank 3
Blank	Blank 4
Blank	Blank 5
Blank	Blank 6
Blank	Blank 7
Reference Standard	Spike 1
Reference Standard	Spike 2
Reference Standard	Spike 3
Reference Standard	Spike 4
Reference Standard	Spike 5
Reference Standard	Spike 6
Reference Standard	Spike 7
Reference Standard	Spike 8
Reference Standard	Spike 9

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Very truly yours,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

for

Farideh Moghadami
Laboratory Manager

cc: QA Officer

SAIC
Analytical Laboratory
3 Choke Cherry Road
Rockville, MD 20850-4087

CASE NARRATIVE

Sample Delivery Group No. BOOB87 was analyzed in accordance with SAIC's standard operating procedures and the quality assurance program. This group was received on October 19, 1990 and included the following samples:

WHC Sample No.	*SAIC Sample No.*	*Sample Date*	*Sample Type*
BOOB87	19768	05/21/90	Asparagus
BOOB86	19769	05/21/90	Asparagus
BOOB85	19770	05/21/90	Asparagus
BOOB88	19772	05/21/90	Asparagus
BOOB84	19773	05/21/90	Asparagus
BOOB89	19774	05/25/90	Asparagus
BOO9V2	19775	05/07/90	Asparagus
BOO9V1	19776	05/07/90	Asparagus
BOO9V0	19777	05/07/90	Asparagus
BOO9T9	19778	05/07/90	Asparagus
BOO9T8	19779	05/07/90	Asparagus
BOO9T7	19780	05/07/90	Asparagus
BOOB83	19782	05/21/90	Asparagus
BOOB81	19783	05/14/90	Asparagus
BOOB82	19784	05/14/90	Asparagus
BOOB93	19785	05/25/90	Asparagus
BOOB92	19786	05/25/90	Asparagus
BOOB91	19787	05/25/90	Asparagus
BOOB90	19788	05/25/90	Asparagus
BOOCJ2	19789	06/19/90	CHNA
BOOCJ5	19790	06/19/90	POSA
BOOCJ0	19792	06/19/90	CHNA
BOOCJ3	19793	06/19/90	POSA
BOOCJ1	19794	06/19/90	CHNA
BOOCJ6	19795	06/19/90	POSA
BOOCH5	19796	06/19/90	CHNA
BOOCJ8	19797	06/19/90	POSA
BOOCH8	19798	06/19/90	CHNA
BOOCJ9	19799	06/19/90	POSA
BOOCH7	19800	06/19/90	CHNA
BOOCJ7	19802	06/19/90	POSA

SAIC
Analytical Laboratory
3 Choke Cherry Road
Rockville, MD 20850-4087

WHC Sample No.	*SAIC Sample No.*	*Sample Date*	*Sample Type*
BOO9Q4	19803	04/20/90	Asparagus
BOO9Q6	19804	04/20/90	Asparagus
BOO9Q3	19805	04/20/90	Asparagus
BOO9Q5	19806	04/20/90	Asparagus
BOO9T1	19807	04/26/90	Asparagus
BOO9T2	19808	04/26/90	Asparagus
BOO9T3	19809	05/03/90	Asparagus
BOO9T4	19810	05/03/90	Asparagus
BOO9T6	19812	05/03/90	Asparagus
BOO9T5	19813	05/03/90	Asparagus
BOOB79	19814	05/14/90	Asparagus
BOOB78	19815	05/14/90	Asparagus

No abnormalities, problems, or deviations from accepted procedures were identified except those noted as follows:

Issue	*Reason*
Detection limit of 1.2 pCi/g on samples 19778, 19790, 19794, 19802, 19799, 19797	The laboratory was unable to achieve the detection limit of 1.0 pCi/g on these samples due to the amount of sample available. Five (5) grams of sample was supplied, and ten (10) grams of this sample type are necessary to meet this detection limit. The lab generally allocates 50% of sample received for chemical separations and archives 50% to allow for any problems that may arise or for a requested reanalysis.

Issue	*Reason*
Recount of samples 19811, 19813, 19813, 19798, 19765,	The original count of these samples were slightly above background and the lab recounted the samples. The recount values were at background levels.
Redissolve and recount of samples 19785, 19786	These samples indicated three to four times background levels of activity. The samples were redissolved and precipitated a second time and counted for beta activity. The second count indicated no significant level of beta activity. Technetium is precipitated as tetraphenyl arsonium perrehenate. This is a very large and bulky molecule and can sometimes capture naturally occuring potassium 40 inside the lattice of the compound. The original count probably reflected activity from potassium 40. Dissolving the sample in ethanol and re-precipitating probably removed the interfering ions.
Reanalysis of samples 19782, 19769, 19774	These samples were reanalyzed due to unusually low yields. The samples were probably not mixed thoroughly wehn the tetraphenylarsonium chloride was added to the sample in the purification step of the procedure.

SAIC
Analytical Laboratory
3 Choke Cherry Road
Rockville, MD 20850-4087

Issue	*Reason*
Sample 19780 not duplicated (indicated as a duplicate QC sample)	This sample was not duplicated because a portion of the sample was spilled in transfer. In order to meet the 1 pCi/g detection limit, all of the remaining sample was used for one chemical separation.

Battelle
Pacific Northwest Laboratories

CHAIN OF CUSTODY

CAB 034

Company Contact: CHARLES A. BRANDT   Telephone: 376-5345

Samples Collected by: NA   Date: ______   Time: ______

Sample Location: NA

Ice Chest No.: NA   Field Logbook Page No.: ______

Remarks: 99Tc Splits

Method of Shipment: Hand Carry

Sample Identification

New Number	Parent Number	New Number	Parent Number		New Number	Parent Number	New Number	Parent Number
B00B87	B009C8	B009T7	B00979		B00CJ0	B009P5	B009Q6	ASPG022
B00B86	B009C7	B00B83	B009C4		B00CJ3	B009P6	B009Q3	ASPG019
B00B85	B009C6	B00B81	B009C2		B00CJ1	B009P3	B009Q5	ASPG021
B00B88	B009C9	B00B82	B009C3	Sample lost in lab	B00CJ6	B009P4	B009T1	ASPG047
B00B84	B009C5	~~B00B94~~	~~B009D5~~	KJF 10/19/90	B00CH5	B009P1	B009T2	ASPG048
B00B89	B009D0	B00B93	B009D4		B00CJ8	B009P2	B009T3	B00975
B009V2	B00984	B00B92	B009D3		B00CH8	B009N9	B009T4	B00976
B009V1	B00983	B00B91	B009D2		B00CJ9	B009P0	B009T6	B00978
B009V0	B00982	B00B90	B009D1		B00CH7	B009N7	B009T5	B00977
B009T9	B00981	B00CJ2	B009P7		B00CJ7	B009N8	B00B79	B009C1
B009T8	B00980	B00CJ5	B009P8		B009Q4	ASPG020	B00B78	B009C0

Chain of Possession

Relinquished by:	Received by:	Date/Time:
RJ Fellows	Gordon Hewitt	10/17/90 11:00 AM
	L. Ricks SATC	10/18/90 - 1030

Westinghouse Hanford Company
Westinghouse Hanford Company
A subsidiary of Westinghouse Electric Corporation
P.O. Box 1970 Richland, Wa. 99352

RELEASE TO SHIP

41440

MO	DAY	YR
10	12	90

DATE SHIPPED: MO | DAY | YR

VENDOR CODE: 55922

PURCHASE ORDER REF: MPB-SVV-069146

SHIP TO
SCIENCE APPLICATIONS INTERNATIONAL CORP.
LABORATORY SERVICES DIVISION
3 CHOKE CHERRY ROAD
ROCKVILLE MD 20850-4087
ATTN: RADWASTE SAMPLE COORDINATOR

RMA NO.

FOR ACCOUNT OF
WESTINGHOUSE HANFORD COMPANY
PO BOX 1970
RICHLAND WA 99352

F.O.B.	CAR INITIALS AND NO.	FRT. CHGS. 1. VENDOR 2. WESTINGHOUSE HANFORD	BUYER CODE	BUYER NAME	PHONE
ROCKVILLE MD		2	PB	P. D. BRAUN	6-5762

B/L	B/L WEIGHT	ROUTING	RETURN DUE DATE	REQUISITION NO.
	5 lbs 13 oz	AIRBORNE OR FEDERAL EXPRESS	TBD	069146

P/O ITEM	QUANTITY	U.M	DESCRIPTION	AMOUNT
	5	EA	BOXES ~~COOLERS~~ OF VEGETATION SAMPLES	

10/18/90

REDISTRIBUTE COST ☐ YES ☒ NO

SPECIAL PACKAGING REQUIRED ☐ YES ☒ NO

REASON FOR SHIPMENT: F

A. RETURN FOR CREDIT
B. RETURN FOR REPLACEMENT
C. RETURN FOR REPAIR
D. RETURN VENDOR-OWNED RETURNABLE CONTAINER
E. RETURN OVERSHIPMENTS
F. RETURN SAMPLE
G. RETURN VENDOR-OWNED MATERIAL OR EQUIPMENT
H. SHIP GOVERNMENT-OWNED TOOLS, JIGS, AND FIXTURES
I. SHIP EXCHANGE UNITS (CORE)
J. SHIP MATERIAL OR EQUIPMENT FOR REPAIR OR REBUILD
K. SHIP MATERIAL OR EQUIPMENT FOR REPAIR ESTIMATE
L. SHIP GOVERNMENT-OWNED RETURNABLE CONTAINER
M. SHIP GOVERNMENT-OWNED MATERIAL FOR USE IN FABRICATION
N. MISCELLANEOUS-

HAZARDOUS MATERIAL ☐ YES ☒ NO IF YES, HAZARDOUS MATERIAL FORM IS REQUIRED TO ACCOMPANY MATERIAL.

LOCATION OF MATERIAL	TOTAL PIECES	RM CLEARANCE FOR PUBLIC SALE	SURVEY NO.
TO BE DELIVERED TO SHIPPING	5		DATE

CUSTODIAN: R. A. RECHTOLD
PHONE: 3-3448
DATE AVAILABLE FOR SHIPMENT: 10-16-90

ITEM	CO ID*	COST CENTER	MC	COST ELEMENT	CHARGE CODE	% OF COST
	M	16500		210	EC32Y	100

AUTHORIZED BY: P. D. BRAUN Peter D Braun 10-12-90 DATE
FOR DOE DATE
FOR SHIPPING OPERATION J. Bennett 10/11/90 DATE

1-ACCOUNTS PAYABLE COPY
3-PROPERTY MANAGEMENT COPY
5-PACKING LIST COPY
7-CUSTODIAN COPY-2
2-BUYER'S COPY
4-SHIPPING COPY
6-CUSTODIAN COPY-1
8-PURCHASING COPY

5
5-2

54-7000-169 (12/85)

99Tc #	Parent #	Stratum	Sample Date	Sample Type
B00B87	B009C8	300 Downriver	05/21/90	Asparagus
B00B86	B009C7	300 Downriver	05/21/90	Asparagus
B00B85	B009C6	300 Downriver	05/21/90	Asparagus
B00B88	B009C9	300 Downriver	05/21/90	Asparagus
B00B84	B009C5	300 Downriver	05/21/90	Asparagus
B00B89	B009D0	300 Downriver	05/25/90	Asparagus
B009V2	B00984	Downriver	05/07/90	Asparagus
B009V1	B00983	Downriver	05/07/90	Asparagus
B009V0	B00982	Downriver	05/07/90	Asparagus
B009T9	B00981	Downriver	05/07/90	Asparagus
B009T8	B00980	Downriver	05/07/90	Asparagus
B009T7	B00979	Downriver	05/07/90	Asparagus
B00B83	B009C4	Downriver	05/21/90	Asparagus
B00B81	B009C2	Operable Unit	05/14/90	Asparagus
B00B82	B009C3	Operable Unit	05/14/90	Asparagus
B00B94	B009D5	Operable Unit	05/25/90	Asparagus
B00B93	B009D4	Operable Unit	05/25/90	Asparagus
B00B92	B009D3	Operable Unit	05/25/90	Asparagus
B00B91	B009D2	Operable Unit	05/25/90	Asparagus
B00B90	B009D1	Operable Unit	05/25/90	Asparagus
B00CJ2	B009P7	Operable Unit	06/19/90	CHNA
B00CJ5	B009P8	Operable Unit	06/19/90	POSA
B00CJ0	B009P5	Operable Unit	06/19/90	CHNA
B00CJ3	B009P6	Operable Unit	06/19/90	POSA
B00CJ1	B009P3	Operable Unit	06/19/90	CHNA
B00CJ6	B009P4	Operable Unit	06/19/90	POSA
B00CH5	B009P1	Operable Unit	06/19/90	CHNA
B00CJ8	B009P2	Operable Unit	06/19/90	POSA
B00CH8	B009N9	Operable Unit	06/19/90	CHNA
B00CJ9	B009P0	Operable Unit	06/19/90	POSA
B00CH7	B009N7	Operable Unit	06/19/90	CHNA
B00CJ7	B009N8	Operable Unit	06/19/90	POSA
B009Q4	ASPG020	South Plateau	04/20/90	Asparagus
B009Q6	ASPG022	South Plateau	04/20/90	Asparagus
B009Q3	ASPG019	South Plateau	04/20/90	Asparagus
B009Q5	ASPG021	South Plateau	04/20/90	Asparagus
B009T1	ASPG047	South Plateau	04/26/90	Asparagus

99Tc #	Parent #	Stratum	Sample Date	Sample Type
B009T2	ASPG048	South Plateau	04/26/90	Asparagus
B009T3	B00975	Upriver	05/03/90	Asparagus
B009T4	B00976	Upriver	05/03/90	Asparagus
B009T6	B00978	Upriver	05/03/90	Asparagus
B009T5	B00977	Upriver	05/03/90	Asparagus
B00B79	B009C1	Upriver	05/14/90	Asparagus
B00B78	B009C0	Upriver	05/14/90	Asparagus
B00B77	B009B9	Upriver	05/14/90	Asparagus
B00CH6	B009P9	Upriver	06/20/90	CHNA
B00CK0	B009Q0	Upriver	06/20/90	POSA
B00CH9	B009Q1	Upriver	06/20/90	CHNA
B00CJ4	B009Q2	Upriver	06/20/90	POSA
B009V6	B00988	West	05/07/90	Asparagus
B009V5	B00987	West	05/07/90	Asparagus
B009V3	B00985	West	05/07/90	Asparagus
B009V4	B00986	West	05/07/90	Asparagus

24

B009Q7	ASPG023	Hanford Townsite	04/24/90	Asparagus
B009Q9	ASPG025	Hanford Townsite	04/24/90	Asparagus
B009R0	ASPG026	Hanford Townsite	04/24/90	Asparagus
B009R2	ASPG028	Hanford Townsite	04/24/90	Asparagus
B009V7	B00989	Sunnyside	05/08/90	Asparagus } dup
B009V8	B00990	Sunnyside	05/08/90	Asparagus } dup
B009R4	ASPG030	Taylor Flats	04/25/90	Asparagus } dup.
B009R7	ASPG033	Taylor Flats	04/25/90	Asparagus } dup.
B009S6	ASPG042	Taylor Flats	04/25/90	Asparagus } dup.
B009S9	ASPG045	Taylor Flats	04/25/90	Asparagus } dup.
B009V9	B00991	Toppenish	05/08/90	Asparagus } dup.
B009W0	B00992	Toppenish	05/08/90	Asparagus } dup.
B009S0	ASPG036	Taylor Flats	04/25/90	Asparagus } dup.
B009S1	ASPG037	Taylor Flats	04/25/90	Asparagus } dup.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/21/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19768
Plant Sample ID	:	U# B00B87
Volume/Weight	:	8.6540E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	1.92E-07	177	<5.4E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/21/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19769
Plant Sample ID	:	U# B00B86
Volume/Weight	:	9.1351E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-1.14E-06	62	<1.3E-06

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/21/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19770
Plant Sample ID	:	U# B00B85
Volume/Weight	:	8.9842E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-7.83E-07	60	<8.7E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/20/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19771
Plant Sample ID	:	DUPLICATE 19745, U# B00CK0
Volume/Weight	:	4.2545E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	5.37E-07	125	<1.2E-06

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/21/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19772
Plant Sample ID	:	U# B00B88
Volume/Weight	:	1.0002E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	2.97E-08	456	<7.1E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/21/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19773
Plant Sample ID	:	U# B00B84
Volume/Weight	:	8.5956E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-1.03E-06	69	<1.3E-06

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19774
Plant Sample ID	:	U# B00B89
Volume/Weight	:	8.3858E+00 g (dry)
Purchase Order Number	:	MPBSVV069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	3.28E-08	3040	<1.6E-06

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/07/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19775
Plant Sample ID	:	U# B009V2
Volume/Weight	:	9.6225E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	4.56E-07	110	<7.8E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/07/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19776
Plant Sample ID	:	U# B008V1
Volume/Weight	:	8.4336E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	5.92E-07	62	<6.7E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/07/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19777
Plant Sample ID	:	U# B009V0
Volume/Weight	:	7.9310E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	2.55E-07	152	<6.1E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/07/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19778
Plant Sample ID	:	U# B009T9
Volume/Weight	:	8.9111E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-4.49E-07	154	<1.2E-06

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/07/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19779
Plant Sample ID	:	U# B009T8
Volume/Weight	:	8.8680E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-9.53E-07	60	<1.1E-06

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/07/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19780
Plant Sample ID	:	U# B009T7
Volume/Weight	:	8.9855E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-2.10E-07	96	<3.6E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/21/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19782
Plant Sample ID	:	U# B00B83
Volume/Weight	:	8.4800E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-5.85E-07	125	<1.3E-06

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/14/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19783
Plant Sample ID	:	U# B00B81
Volume/Weight	:	8.2857E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	1.99E-07	214	<6.8E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/14/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19784
Plant Sample ID	:	U# B00B82
Volume/Weight	:	9.2226E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	5.17E-08	613	<5.2E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19785
Plant Sample ID	:	U# B00B93
Volume/Weight	:	8.9634E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-6.61E-08	600	<6.6E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19786
Plant Sample ID	:	U# B00B92
Volume/Weight	:	8.5508E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-4.92E-07	102	<8.8E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19787
Plant Sample ID	:	U# B00B91
Volume/Weight	:	8.3309E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-1.02E-06	44	<8.6E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19788
Plant Sample ID	:	U# B00B90
Volume/Weight	:	8.0832E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-2.90E-07	145	<7.3E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19789
Plant Sample ID	:	U# B00CJ2
Volume/Weight	:	5.8982E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-5.51E-07	81	<8.0E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19790
Plant Sample ID	:	U# B00CJS
Volume/Weight	:	4.5775E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-6.00E-07	119	<1.2E-06

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19791
Plant Sample ID	:	DUPLICATE 19789, U# B00CJ5
Volume/Weight	:	5.8982E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-3.40E-07	145	<8.5E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19792
Plant Sample ID	:	U# B00CJ0
Volume/Weight	:	5.6310E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-3.34E-07	219	<8.7E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19793
Plant Sample ID	:	U# B00CJ3
Volume/Weight	:	3.8372E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	2.30E-07	223	<8.2E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19794
Plant Sample ID	:	U# B00CJ1
Volume/Weight	:	5.8825E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	2.67E-07	270	<1.2E-06

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19795
Plant Sample ID	:	U# B00CJ6
Volume/Weight	:	5.0794E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	4.48E-07	.164	<1.2E-06

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19796
Plant Sample ID	:	U# B00CH5
Volume/Weight	:	7.2030E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	1.91E-07	249	<7.7E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19797
Plant Sample ID	:	U# B00CJ8
Volume/Weight	:	3.7303E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	7.42E-07	157	<1.8E-06

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19798
Plant Sample ID	:	U# B00CH8
Volume/Weight	:	6.9929E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-1.20E-06	36	<8.6E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19799
Plant Sample ID	:	U# B00CJ9
Volume/Weight	:	4.8675E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	3.72E-07	232	<1.4E-06

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19800
Plant Sample ID	:	U# B00CH7
Volume/Weight	:	6.1903E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	3.46E-07	192	<1.1E-06

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/19/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19801
Plant Sample ID	:	DUPLICATE 19789, U# BOO9Q4
Volume/Weight	:	1.0287E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-3.24E-07	125	<7.1E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	06/10/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19802
Plant Sample ID	:	U# B00CJ7
Volume/Weight	:	4.3871E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-1.02E-06	64	<1.2E-06

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/20/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19803
Plant Sample ID	:	U# B009Q4
Volume/Weight	:	1.0287E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	1.18E-08	169	<6.2E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/20/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19804
Plant Sample ID	:	U# B009Q6
Volume/Weight	:	1.0441E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-1.88E-07	125	<4.1E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/20/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19805
Plant Sample ID	:	U# B009Q3
Volume/Weight	:	1.0345E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-1.78E-07	204	<6.2E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/20/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19806
Plant Sample ID	:	U# B009Q5
Volume/Weight	:	1.0402E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-6.80E-08	499	5.7E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/26/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19807
Plant Sample ID	:	U# B009T1
Volume/Weight	:	1.0338E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	2.15E-07	209	≤7.2E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/26/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19808
Plant Sample ID	:	U# B009T2
Volume/Weight	:	1.0444E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-4.77E-07	74	<6.4E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/03/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19809
Plant Sample ID	:	U# B009T3
Volume/Weight	:	9.5277E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-6.97E-07	58	<7.4E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/03/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19810
Plant Sample ID	:	U# B009T4
Volume/Weight	:	9.5898E+00 g (dry)
Purchase Order Number	:	MPBSVV069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	3.36E-08	1060	<5.8E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	04/25/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19811
Plant Sample ID	:	DUPLICATE 19766, U# BOO9S0
Volume/Weight	:	1.1084E+01 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-2.14E-07	153	<5.6E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/03/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19812
Plant Sample ID	:	U# B009T6
Volume/Weight	:	8.7850E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-5.53E-07	65	<6.6E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/03/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19813
Plant Sample ID	:	U# B009T5
Volume/Weight	:	8.8775E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-4.73E-07	77	<6.6E-07

Project Manager William P. Craig

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/14/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19814
Plant Sample ID	:	U# B00B78
Volume/Weight	:	8.7348E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-2.43E-07	152	<6.3E-07

Project Manager

Laboratory Manager

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

Science Applications International Corporation
Radioactive Sample Analysis Report

Plant Name	:	Hanford
Sample Type	:	Special, Solid
Reference Date/Time	:	05/14/90 12:00
Receipt Date	:	10/19/90
Reporting Date	:	12/07/90
SAIC Sample Number	:	19815
Plant Sample ID	:	U# B00B79
Volume/Weight	:	8.8022E+00 g (dry)
Purchase Order Number	:	MPB-SVV-069146
SAIC Project Number	:	1-139-05-656

Measured Concentration
(uCi/g (dry))

Nuclide	Value	% Unc.	MDL
99-Tc	-5.57E-07	55	<5.7E-07

Project Manager _____

Laboratory Manager _____

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two (2) standard deviations based on counting statistics only.

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Bl#1
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #2
Reference Date	:	11/27/90
Sample Counting Date	:	11/27/90
Chemistry Completion Date	:	11/27/90
Weight of filter	:	3.4200E+01 mg
Weight of filter+precipitate	:	4.9600E+01 mg
Weight of precipitate	:	1.5400E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.0096E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	8.9000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.2289E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.8878E-06 uCi/ ml

	Initials	Date
Data entered by	SG	12/05/90
Data checked by	KLW	12/5/90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Bl#2
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #1
Reference Date	:	11/27/90
Sample Counting Date	:	11/27/90
Chemistry Completion Date	:	11/27/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.1600E+01 mg
Weight of precipitate	:	1.7300E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.8744E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.0500E+02
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1761E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.7451E-06 uCi/ ml

	Initials	Date
Data entered by	SG	12/05/90
Data checked by	KW	12/5/90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Bl#3
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	11/28/90
Chemistry Completion Date	:	11/28/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.1700E+01 mg
Weight of precipitate	:	1.7400E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.9199E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	7.2000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1731E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.7331E-06 uCi/ ml

	Initials	Date
Data entered by	SG	12/05/90
Data checked by	KW	12/5/90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Bl#4
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	11/30/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.1700E+01 mg
Weight of precipitate	:	1.7400E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.9199E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	9.0000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1731E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.7331E-06 uCi/ ml

	Initials	Date
Data entered by	SG	12/05/90
Data checked by	KW	12/5/90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Bl#5
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #2
Reference Date	:	12/02/90
Sample Counting Date	:	12/02/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.3900E+01 mg
Weight of filter+precipitate	:	4.9200E+01 mg
Weight of precipitate	:	1.5300E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	6.9640E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	5.4000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.2311E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.9037E-06 uCi/ ml

	Initials	Date
Data entered by	SG	12/05/90
Data checked by	KW	12/5/90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Bl#6
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #2
Reference Date	:	12/02/90
Sample Counting Date	:	12/02/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.0600E+01 mg
Weight of precipitate	:	1.6300E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.4192E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	9.2000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.2089E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.7530E-06 uCi/ ml

	Initials	Date
Data entered by	SG	12/05/90
Data checked by	KW	12/5/90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Blank 7
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #2
Reference Date	:	12/04/90
Sample Counting Date	:	12/04/90
Chemistry Completion Date	:	12/04/90
Weight of filter	:	3.4300E+01 mg
Weight of filter+precipitate	:	5.0100E+01 mg
Weight of precipitate	:	1.5800E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.1916E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	5.9000E+01
Gross count time	:	5.0000E+01 min
Efficiency	:	2.2200E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration < 2.8259E-06 uCi/ ml

	Initials	Date
Data entered by	VC	12/07/90
Data checked by	FH	12/17/90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 1 Tc/HH
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/27/90
Weight of filter	:	3.3400E+01 mg
Weight of filter+precipitate	:	5.4000E+01 mg
Weight of precipitate	:	2.0600E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.3764E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3080E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.0797E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 5.4654E-06 +/- 6 % uCi/ml

	Initials	Date
Data entered by	KLW	12/05/90
Data checked by	[signature]	12.7.90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 2 Tc/HH
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/02/90
Chemistry Completion Date	:	11/28/90
Weight of filter	:	3.2400E+01 mg
Weight of filter+precipitate	:	5.3250E+01 mg
Weight of precipitate	:	2.0850E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.4902E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3250E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.0726E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 5.5420E-06 +/- 6 % uCi/ ml

	Initials	Date
Data entered by	KLW	12/05/90
Data checked by	C	12.7.90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 3/Tc HH
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #2
Reference Date	:	12/01/90
Sample Counting Date	:	12/02/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.2900E+01 mg
Weight of filter+precipitate	:	5.4200E+01 mg
Weight of precipitate	:	2.1300E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.6950E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3740E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1012E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 5.5678E-06 +/- 6 % uCi/ ml

	Initials	Date
Data entered by	KLW	12/05/90
Data checked by	KC	12.7 90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 4 Tc/HH
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #2
Reference Date	:	12/01/90
Sample Counting Date	:	12/02/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.2900E+01 mg
Weight of filter+precipitate	:	5.4200E+01 mg
Weight of precipitate	:	2.1300E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.6950E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3660E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1012E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 5.5324E-06 +/- 6 % uCi/ ml

	Initials	Date
Data entered by	KLW	12/05/90
Data checked by	JC	12-7-9

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 5 Tc/HL
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4100E+01 mg
Weight of filter+precipitate	:	5.0200E+01 mg
Weight of precipitate	:	1.6100E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.3282E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	5.8800E+02
Gross count time	:	5.0000E+01 min
Efficiency	:	2.2122E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 2.5730E-06 +/- 12 % uCi/ ml

	Initials	Date
Data entered by	KLW	12/05/90
Data checked by		

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 6 Tc/HL
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4400E+01 mg
Weight of filter+precipitate	:	5.5700E+01 mg
Weight of precipitate	:	2.1300E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.6950E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	6.8500E+02
Gross count time	:	5.0000E+01 min
Efficiency	:	2.0598E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 2.5263E-06 +/- 10 % uCi/ ml

	Initials	Date
Data entered by	KLW	12/05/90
Data checked by	KC	12.7.90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 7
Total sample volume/weight	:	1.0000E+00 ml
Sample volume/weight used	:	1.0000E+00 ml
Counter used	:	Tennelec #2
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/27/90
Weight of filter	:	3.3800E+01 mg
Weight of filter+precipitate	:	5.4000E+01 mg
Weight of precipitate	:	2.0200E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.1944E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3080E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1244E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 5.4563E-05 +/- 6 % uCi/ ml

	Initials	Date
Data entered by	KLW	12/07/90
Data checked by	YC	12-7-90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 8 Tc/HL
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #1
Reference Date	:	12/01/90
Sample Counting Date	:	12/01/90
Chemistry Completion Date	:	11/30/90
Weight of filter	:	3.4500E+01 mg
Weight of filter+precipitate	:	5.1400E+01 mg
Weight of precipitate	:	1.6900E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	7.6923E-01
Background counts	:	1.2500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	5.9600E+02
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1880E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

Tc-99 Concentration 2.5211E-06 +/- 11 % uCi/ ml

	Initials	Date
Data entered by	KLW	12/05/90
Data checked by	YC	12.7.90

SAIC - Tc-99 Analysis Program
Version 1.00

Sample type	:	Spike 9
Total sample volume/weight	:	1.0000E+01 ml
Sample volume/weight used	:	1.0000E+01 ml
Counter used	:	Tennelec #2
Reference Date	:	12/04/90
Sample Counting Date	:	12/04/90
Chemistry Completion Date	:	12/04/90
Weight of filter	:	3.4100E+01 mg
Weight of filter+precipitate	:	5.3900E+01 mg
Weight of precipitate	:	1.9800E+01 mg
Carrier concentration	:	2.1970E+01 mg/ml
Carrier volume	:	1.0000E+00 ml
Carrier weight	:	2.1970E+01 mg
Yield	:	9.0123E-01
Background counts	:	1.1500E+02
Background count time	:	5.0000E+01 min
Gross counts	:	1.3030E+03
Gross count time	:	5.0000E+01 min
Efficiency	:	2.1330E-01
Impurities	:	0.0000E+00
Impurities uncertainty	:	0.0000E+00

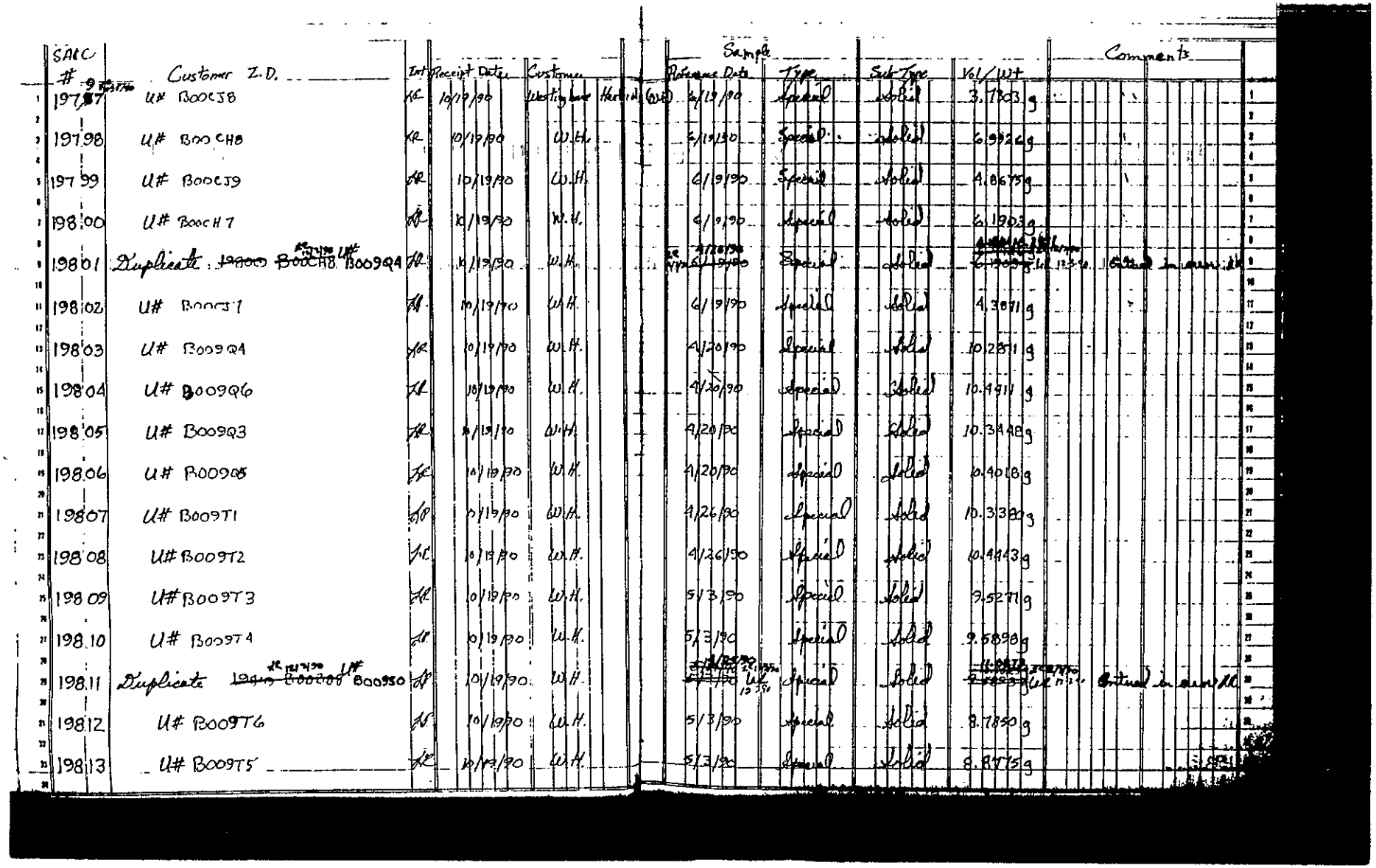
Tc-99 Concentration 5.5677E-06 +/- 6 % uCi/ ml

	Initials	Date
Data entered by	FM	12/07/90
Data checked by	KWL	12/7/90

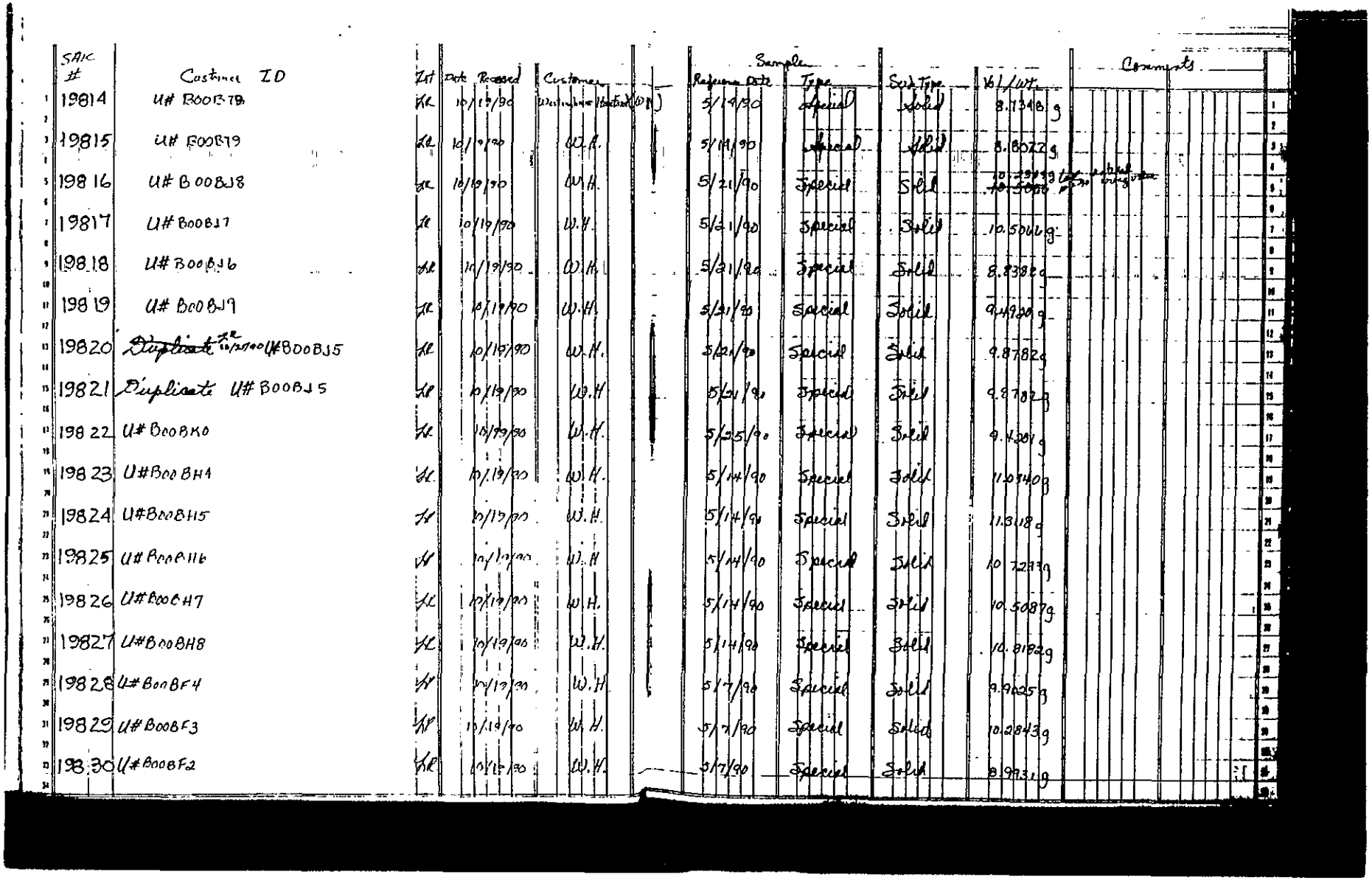
SAIC #	Customer ID	ID	Receipt Date	Customer	Sample Reference Date	Type	Subtype	Vol/Wt.	
19762	U# B00956	LR	10/19/90	Westinghouse Hanford (W.H)	4/25/90	Special	Solid	10.1775 g	
19763	~~U# B00979~~ [LR 11/14/90] U# B00989	LR	10/19/90	W.H.	4/25/90	Special	Solid	10.6377 g	
19764	U# B009V9	LR	10/19/90	W.H.	5/18/90	Special	Solid	10.6463 g	
19765	U# B009W0	LR	10/19/90	W.H.	5/18/90	Special	Solid	11.1043 g	
19766	~~U# B00980~~ [LR 11/14/90] U# B00950	LR	10/19/90	W.H.	4/25/90	Special	Solid	11.0848 g	
19767	~~U# B00981~~ [LR 11/14/90] U# B00951	LR	10/19/90	W.H.	4/25/90	Special	Solid	10.5565 g	
19768	U# B00B81	LR	10/19/90	W.H.	5/21/90	Special	Solid	8.6540 g	
19769	U# B00B86	LR	10/19/90	W.H.	5/21/90	Special	Solid	9.1351 g	
19770	U# B00B85	LR	10/19/90	W.H.	5/21/90	Special	Solid	8.9842 g	
19771	Duplicate ~~B00B85, 19770~~ [LR 12/24] B00CK0	LR	10/19/90	W.H.	6/26/90 ~~5/21/90~~	Special	Solid	4.2545 g ~~8.9842 g~~	Changed duplicate piece to issuance, LK
19772	U# B00B88	LR	10/19/90	W.H.	5/21/90	Special	Solid	10.0623 g	
19773	U# B00B84	LR	10/19/90	W.H.	5/21/90	Special	Solid	8.5956 g	
19774	U# B00B89	LR	10/19/90	W.H.	5/25/90	Special	Solid	8.3858 g	
19775	U# B009V2	LR	10/19/90	W.H.	5/7/90	Special	Solid	9.6225 g	
~~19777~~ [LR]									
19776	~~U# B00...~~ [LR 11/14/90] U# B009V1	LR	10/19/90	W.H.	5/7/90	Special	Solid	8.4836 g	
19777	U# B009V0	LR	10/19/90	W.H.	5/7/90	Special	Solid	7.9310 g	
19778	U# B009T9	LR	10/19/90	W.H.	5/7/90	Special	Solid	8.9111 g	
19779	U# B009T8	LR	10/19/90	W.H.	5/7/90	Special	Solid	8.8682 g	

8-1

SAM #	Customer I.D.	INT	Receipt Date	Customer	Sample Reference Date	Type	Sub-Type	Wt/Wt	Comments
19780	U# B009T7	FR	10/19/90	Westinghouse Hanford (W.H)	5/7/90	Special	Solid	8.9835 g	
19781	Duplicate ~~19780~~ B009T1	FR	10/19/90	W.H	4/3/90 ~~5/7/90~~ 6/21/90	Special	Solid	10.3380 g ~~8.9835 g~~	Changed duplicate before issued. FR
19782	U# B00B83	FR	10/19/90	W.H	5/24/90	Special	Solid	8.4800 g	
19783	U# B00B81	FR	10/19/90	W.H.	5/14/90	Special	Solid	8.2857 g	
19784	U# B00B82	FR	10/19/90	W.H.	5/14/90	Special	Solid	9.2226 g	
19785	U# B00B93	FR	10/19/90	W.H.	5/25/90	Special	Solid	8.9364 g	
19786	U# B00B92	FR	10/19/90	W.H.	5/27/90	Special	Solid	8.5508 g	
19787	U# B00B91	FR	10/19/90	W.H.	5/25/90	Special	Solid	8.3309 g	
19788	U# B00B90	FR	10/19/90	W.H	5/25/90	Special	Solid	8.0832 g	
19789	U# B00CJ2	FR	10/19/90	W.H	6/19/90	Special	Solid	5.8982 g	
19790	U# B00CJ5	FR	10/19/90	W.H	6/19/90	Special	Solid	4.5775 g	
19791	Duplicate ~~19790~~ B00CJ2	FR	10/19/90	W.H.	6/19/90	Special	Solid	5.8982 g ~~[illegible]~~	Changed duplicate before issuance FR
19792	U# B00CJ0	FR	10/19/90	W.H.	6/19/90	Special	Solid	5.6310 g	
19793	U# B00CJ3	FR	10/19/90	W.H	6/19/90	Special	Solid	3.8372 g	
19794	U# B00CJ1	FR	10/19/90	W.H.	6/19/90	Special	Solid	5.8825 g	
19795	U# B00CJ6	FR	10/19/90	W.H	6/19/90	Special	Solid	5.0794 g	
19796	U# B00CH5	FR	10/19/90	W.H	6/19/90	Special	Solid	7.2030 g	



SAIC #	Customer I.D.	Int	Receipt Date	Customer	Reference Date	Sample Type	Sub Type	Vol/Wt	Comments
197 87	U# B00CJ8	KC	10/19/90	Westinghouse Hanford (WHC)	4/19/90	Special	Solid	3.7803 g	
197 98	U# B00CH8	KR	10/19/90	W.H.	4/19/90	Special	Solid	6.9926 g	
197 99	U# B00CJ9	KR	10/19/90	W.H.	4/19/90	Special	Solid	4.8675 g	
198 00	U# B00CH7	KR	10/19/90	W.H.	4/19/90	Special	Solid	6.1903 g	
198 01	Duplicate ~~19800~~ ~~B00CH8~~ B00994	KR	10/19/90	W.H.	4/19/90	Special	Solid	~~6.1903 g~~	Entered in error
198 02	U# B00CJ7	KR	10/19/90	W.H.	4/19/90	Special	Solid	4.3071 g	
198 03	U# B009Q4	KR	10/19/90	W.H.	4/20/90	Special	Solid	10.2851 g	
198 04	U# B009Q6	KR	10/19/90	W.H.	4/20/90	Special	Solid	10.4911 g	
198 05	U# B009Q3	KR	10/19/90	W.H.	4/20/90	Special	Solid	10.3948 g	
198 06	U# B009Q5	KR	10/19/90	W.H.	4/20/90	Special	Solid	0.4018 g	
198 07	U# B009T1	KR	10/19/90	W.H.	4/26/90	Special	Solid	10.3380 g	
198 08	U# B009T2	KR	10/19/90	W.H.	4/26/90	Special	Solid	10.4943 g	
198 09	U# B009T3	KR	10/19/90	W.H.	5/3/90	Special	Solid	9.5271 g	
198 10	U# B009T4	KR	10/19/90	W.H.	5/3/90	Special	Solid	9.5898 g	
198 11	Duplicate ~~19810~~ ~~B00CH8~~ B00950	KR	10/19/90	W.H.	~~5/3/90~~ 5/2/90	Special	Solid	~~9.5898 g~~	Entered in error
198 12	U# B009T6	KR	10/19/90	W.H.	5/3/90	Special	Solid	8.7850 g	
198 13	U# B009T5	KR	10/19/90	W.H.	5/3/90	Special	Solid	8.8775 g	



	SAIC #	Customer ID	Lit	Date Received	Customer	Sample Reference Date	Sample Type	Soil Type	Wt/Vol	Comments
1	19814	U# B00B79	HL	10/19/90	W.H.	5/14/90	Special	Solid	8.1348 g	
2	19815	U# B00B79	HL	10/19/90	W.H.	5/14/90	Special	Solid	8.8022 g	
3	19816	U# B00BJ8	HL	10/19/90	W.H.	5/21/90	Special	Solid	10.2973 g	
4	19817	U# B00BJ7	HL	10/19/90	W.H.	5/21/90	Special	Solid	10.5046 g	
5	19818	U# B00BJ6	HL	10/19/90	W.H.	5/21/90	Special	Solid	8.8382 g	
6	19819	U# B00BJ9	HL	10/19/90	W.H.	5/21/90	Special	Solid	9.4920 g	
7	19820	~~Duplicate~~ 10/19/90 U# B00BJ5	HL	10/19/90	W.H.	5/21/90	Special	Solid	9.8782 g	
8	19821	Duplicate U# B00BJ5	HL	10/19/90	W.H.	5/21/90	Special	Solid	9.8782 g	
9	19822	U# B00BK0	HL	10/19/90	W.H.	5/25/90	Special	Solid	9.4201 g	
10	19823	U# B00BH4	HL	10/19/90	W.H.	5/14/90	Special	Solid	11.0940 g	
11	19824	U# B00BH5	HL	10/19/90	W.H.	5/14/90	Special	Solid	11.3118 g	
12	19825	U# B00BH6	HL	10/19/90	W.H.	5/14/90	Special	Solid	10.7239 g	
13	19826	U# B00BH7	HL	10/19/90	W.H.	5/14/90	Special	Solid	10.5087 g	
14	19827	U# B00BH8	HL	10/19/90	W.H.	5/14/90	Special	Solid	10.8182 g	
15	19828	U# B00BF4	HL	10/19/90	W.H.	5/7/90	Special	Solid	9.9025 g	
16	19829	U# B00BF3	HL	10/19/90	W.H.	5/7/90	Special	Solid	10.2843 g	
17	19830	U# B00BF2	HL	10/19/90	W.H.	5/7/90	Special	Solid	9.9731 g	

WORK ORDER/INVOICE AUTHORIZATION

Plant:	HANFORD	Project No.:	1-139-05-656
SAIC Sample Nos.:	19768-19815	P. O. No.:	MPB-SVV-089146
Date Received:	10/19/90	Date Results Due:	12/03/90
Logged By:	LAURENT RICKS	Log Date:	10/19/90

✓ Quantity	Description	Unit Price	Total
43	Tc-99		$
			$
			$
			$
			$
			$
			$
			$
			$
			$
			$
		Basic value	$
		Shipping charges (if any)	$
		Surcharges/late penalties	$
		Total amount due this invoice	$

Check (✓) at left if item subcontracted to another lab

Comments:

Sample Delivery Group No. B00B87

Subcontractor (if any):

Date sent out: Date received:

Date due back: Total cost:$
(items checked)

(11/90)